```
AN
     1986:410444 HCAPLUS
DN
     105:10444
ΤI
     Magnesium alloys for die-casting
IN
     Hirasawa, Yoshikazu; Oki, Shujiro; Hashimoto, Ikuji
PΑ
     Ube Industries, Ltd., Japan
SO
     Jpn. Kokai Tokkyo Koho, 3 pp.
     CODEN: JKXXAF
DT
     Patent
LA
     Japanese
FAN.CNT 1
     PATENT NO.
                     KIND DATE
                                          APPLICATION NO. DATE
                     ----
                           -----
                                           ______
PΙ
     JP 61003863 A2 19860109
                                           JP 1984-121901
                                                            19840615
     JP 03017890
                      B4 19910311
PRAI JP 1984-121901
                           19840615
     The Mg alloys contain Ca 0.2-4, Al 1-6,
     Si 0.5-1.5, Mn 0.15-0.5, Zn \le 0.3, Cu \le 0.06, Ni
     \leq0.03, and impurities \leq0.3%. Addition of Ca to
    \mathbf{Mg}\text{-base} alloy containing \mathbf{Si} \geq 0.5\% increases the
     creep-rupture resistance. Thus, die-cast Mg alloy (containing
     Ca 0.52, Al 3.9-4.2, Si 0.8-1.3, and Mn
     0.24-0.28%) showed tensile strength 21.8 kg/mm2 and elongation 8.0%. The
    rupture time was 3.7 h with elongation 11.3% in creep-rupture tests at
```

1-6 Al 012-4 Ca 012-1-51 200 MG

250° with tensile stress 5.5 kg/mm2.